



1N4933G THRU 1N4937G

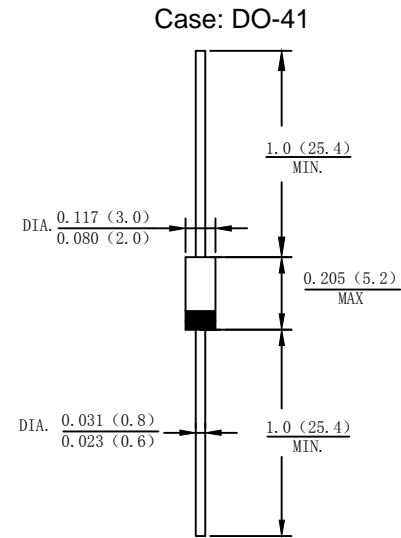
1.0 AMP.Fast Recovery Rectifiers

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic DO-41
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dented cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified
Single phase,half wave,60Hz,resistive or inductive load
For capacitive load derate current by 20%

Type Number	SYMBOL	1N4933G	1N4934G	1N4935G	1N4936G	1N4937G	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	V
Average Rectified Output Current (Note 1) @T _L =90 °C	I _{F(AV)}	1.0					A
Non-Repetitive Peak Forward Surge @T _j =25 °C Current 8.3ms Single half sine-wave@T _j =125 °C Superimposed On Rated Load (JEDEC Method)	I _{FSM}	30 24					A
Non-Repetitive Peak Forward Surge @T _j =25 °C Current 1.0ms Single half sine-wave @T _j =125°C Superimposed On Rated Load (JEDEC Method)	I _{FSM}	60 48					A
10000 times of the wave surge current (time width 1ms, time interval 3s)	I _{FSM}	22.5					A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	3.735					A ² s
Forward Voltage @IF=1.0A	V _{FM}	1.2					V
Peak Reverse Current @T _A =25 °C	I _R	5.0					uA
At Rated DC Blocking Voltage @T _A =125°C		100					
Maximum Reverse Recovery Time (Note 1)	T _{RR}	200					nS
Typical Junction Capacitance (Note 2)	C _J	10					pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	65					°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C

Note:

1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



1N4933G THRU 1N4937G

1.0 AMP Fast Recovery Rectifiers

Fig. 1 Forward Current Derating Curve

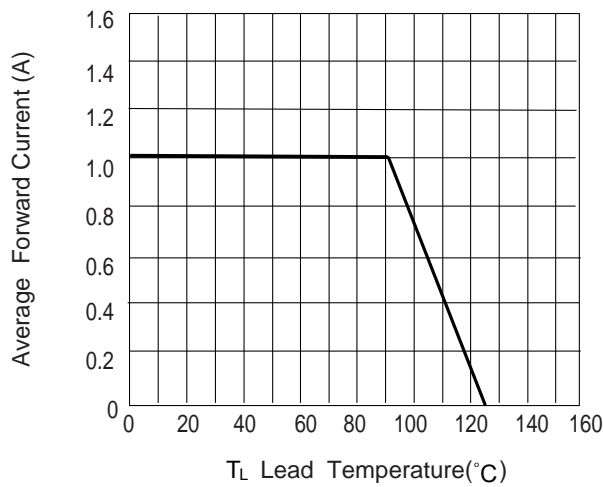


Fig 2 Typical Reverse Characteristics (per element)

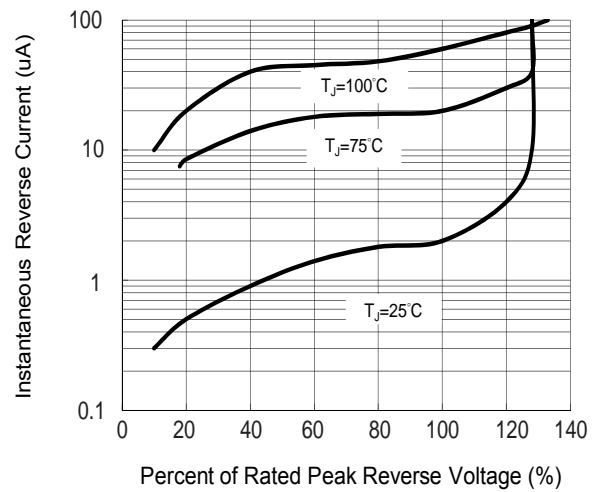


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

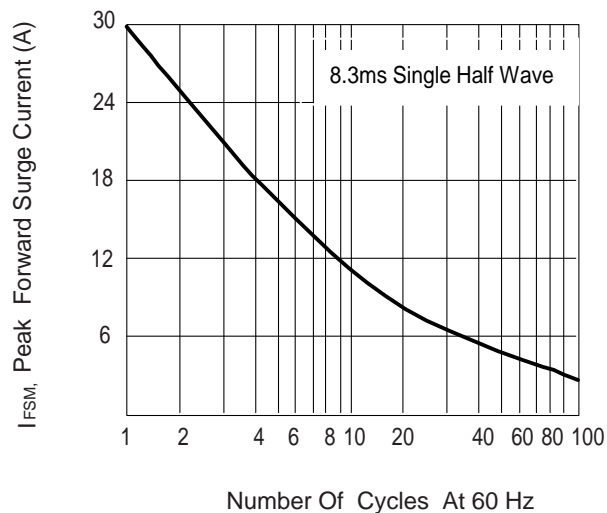


Fig. 4 Typ. Forward Characteristics

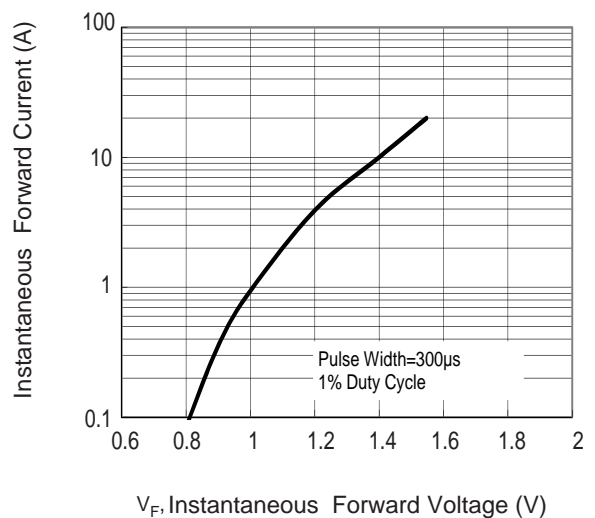


Fig.5 Typical Junction Capacitance

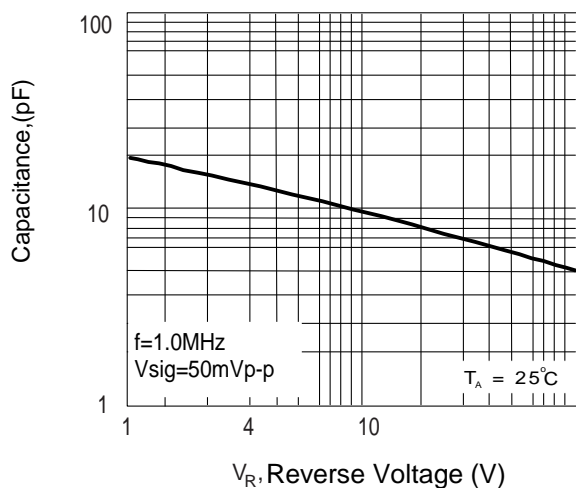
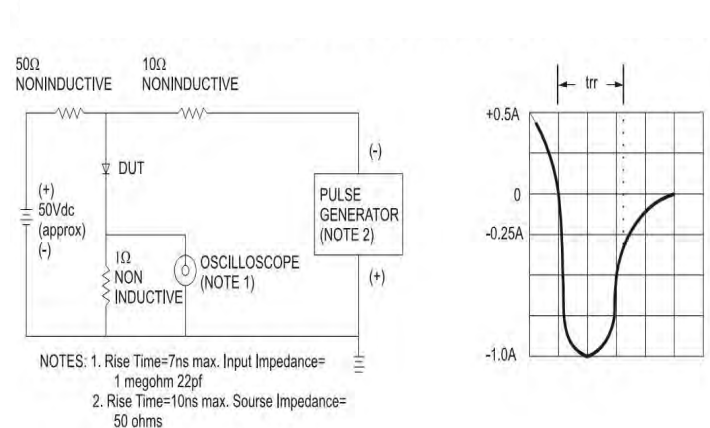


Fig.6 Reverse Recovery Time Characteristic And Test Circuit Diagram





Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUO reserves the right to make changes to this document and its products and specifications
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.